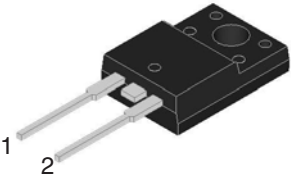
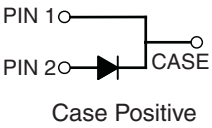


## 16 Amp. Schottky Barrier Rectifier

<b>ITO-220AC</b>     Case Positive	<b>Voltage</b> 45 to 150 V	<b>Current</b> 16 A
	<ul style="list-style-type: none"> <li>• Plastic material used carries Underwriters Laboratory Classifications 94V-0</li> <li>• Metal silicon junction, majority carrier conduction</li> <li>• Low power loss, high efficiency</li> <li>• High current capability, low forward voltage drop</li> <li>• High surge capability</li> <li>• For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications</li> <li>• Guardring for overvoltage protection</li> <li>• High temperature soldering guaranteed: 260°C/10 seconds, 6.35mm from case</li> </ul>	
<b>Mechanical Data</b> <ul style="list-style-type: none"> <li>• Cases: ITO-220AC molded plastic body</li> <li>• Terminals: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026</li> <li>• Polarity: As marked</li> <li>• Mounting position: Any</li> <li>• Mounting torque: 5 in. - lbs. max</li> <li>• Weight: 2.24 grams</li> </ul>		

### Absolute Maximum Ratings, according to IEC publication No. 134

		MBRF 1645	MBRF 1660	MBRF 16100	MBRF 16150
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	45	60	100	150
$V_{RMS}$	Maximum RMS Voltage (V)	31	42	70	105
$V_{DC}$	Maximum DC Blocking Voltage (V)	45	60	100	150
$I_F (AV)$	Maximum Average Forward Rectified Current at $T_c = 125^\circ C$	16 A			
$I_{FSM}$	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A			
$I_{RRM}$	Peak Repetitive Reverse Surge Current (Note 1)	1.0 A	0.5 A		
$T_j$	Operating Junction Temperature Range	- 65 to + 150 °C			
$T_{stg}$	Storage Temperature Range	- 65 to + 175 °C			

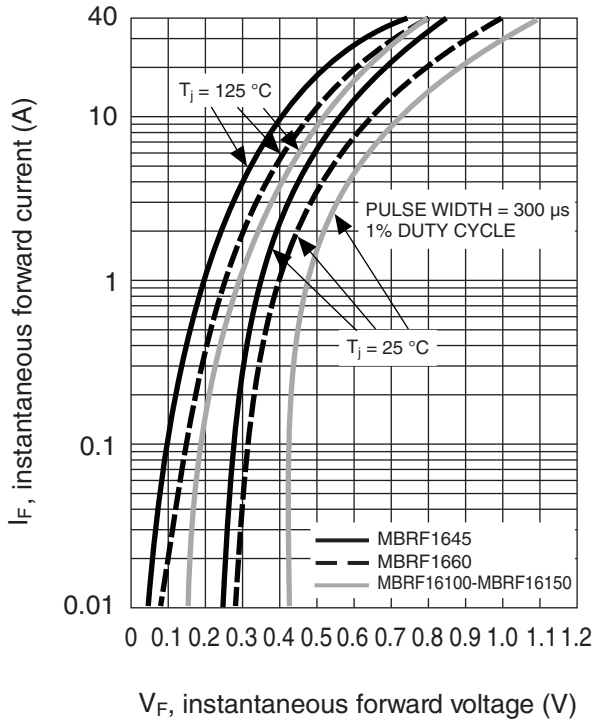
### Electrical Characteristics

		MBRF 1645	MBRF 1660	MBRF 16100	MBRF 16150
$V_F$	Maximum Instantaneous Forward Voltage at: (Note 2) at $I_F = 16 A, T_c = 25^\circ C$ at $I_F = 16 A, T_c = 125^\circ C$	0.63 V 0.57 V	0.75 V 0.65 V	0.85 V 0.75 V	0.95 V 0.92 V
$I_R$	Max. Instantaneous Reverse Current @ $T_c = 25^\circ C$ at Rated DC Blocking Voltage (Note 2) @ $T_c = 125^\circ C$	0.5 mA 15 mA	0.5 mA 10 mA	0.3 mA 7.5 mA	0.1 mA 5.0 mA
$R_{thj-c}$	Maximun Typical Thermal Resistance (Note 3)	3.0 °C/W			

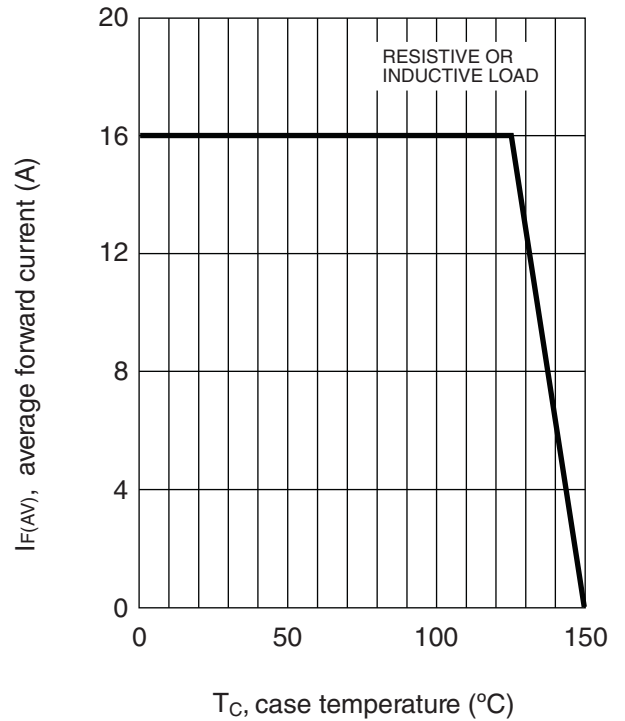
Notes: 1. 2.0µs Pulse Width, f=1.0 KHz  
 2. Pulse Test: 300µs Pulse Width, 1% Duty Cycle  
 3. Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

### Rating And Characteristic Curves

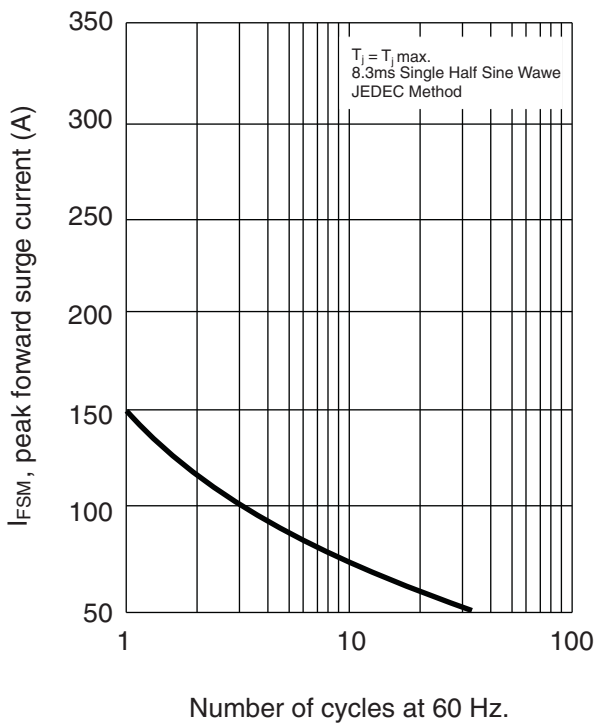
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



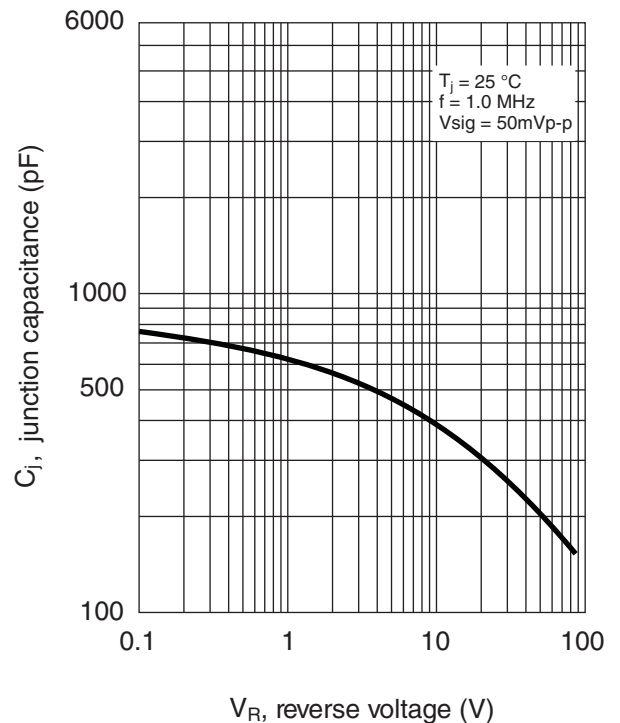
FORWARD CURRENT DERATING CURVE



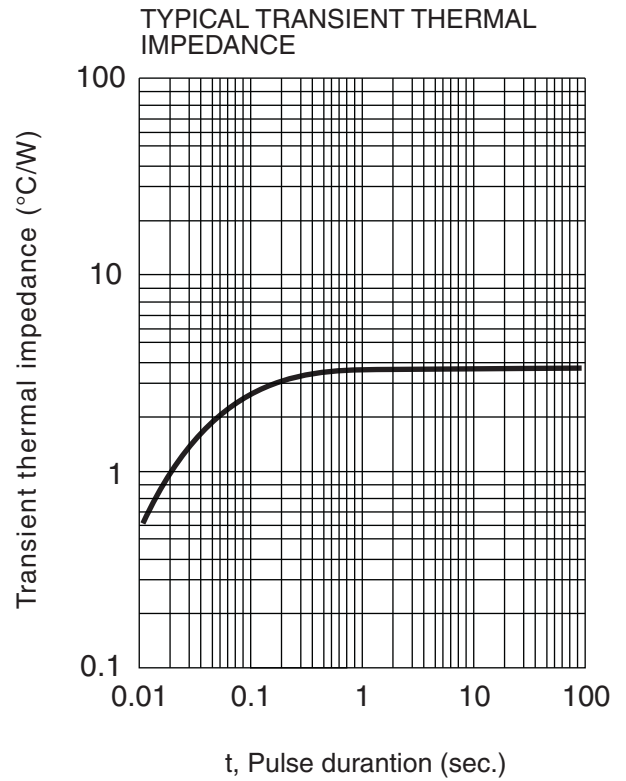
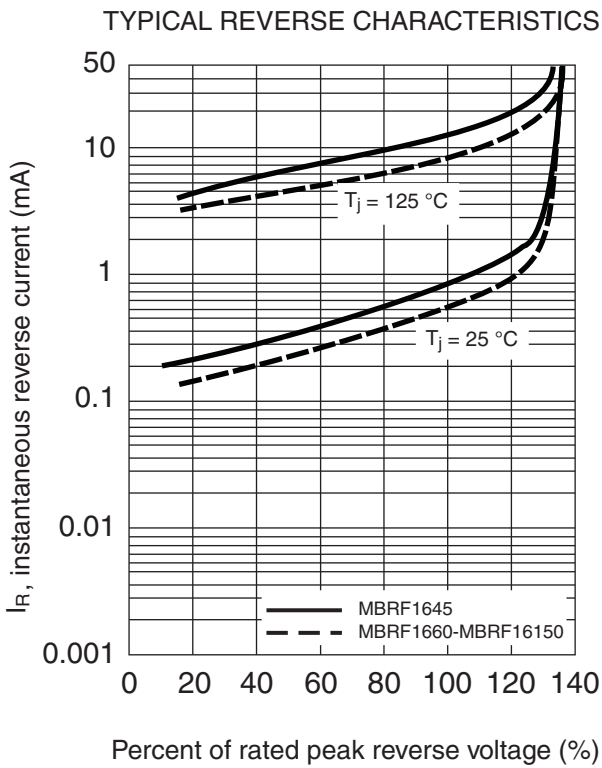
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



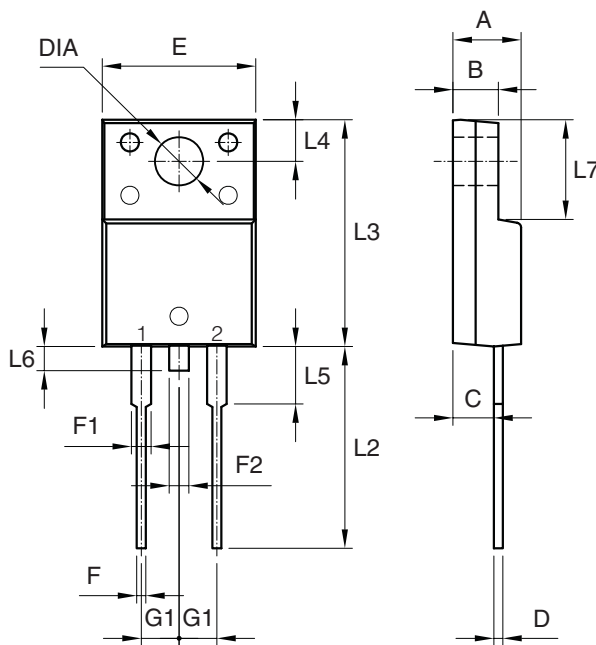
TYPICAL JUNCTION CAPACITANCE



**Rating And Characteristic Curves**



**PACKAGE MECHANICAL DATA ITO-220AC**



REF.	DIMENSIONS		
	Millimeters		
	Min.	Nominal	Max.
A	4.40	-	4.70
B	3.00	-	3.16
C	2.50	-	2.80
D	0.50	-	0.76
E	9.90	-	10.30
F	0.50	-	0.90
F1	1.10	-	1.40
F2	-	-	1.80
G1	2.40	2.55	2.70
L2	13.20	-	13.80
L3	14.80	-	15.50
L4	2.55	-	2.85
L5	3.70	-	4.10
L6	-	-	1.60
L7	6.30	-	6.90
DIA	3.00	-	3.40